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O.G. FIG.
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FIG. 1A

Consensus Sequence

Symbol comparison table: blosum62.cmp **CompCheck:** 6430

Name:	hTRADEalpha_1	**Len:** 423	**Check:** 4050	**Weight:**	1.00
Name:	hTRAIN_1	**Len:** 423	**Check:** 4128	**Weight:**	1.00
Name:	hTRADEbeta_1	**Len:** 423	**Check:** 7937	**Weight:**	1.00
Name:	hApo420pep	**Len:** 423	**Check:** 8173	**Weight:**	1.00

//

```
                    1                                                  50
hTRADEalpha_        MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN
    hTRAIN_1        MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN
hTRADEbeta_1        MALKVLLEQE KTFFTLLVLL GYLSCKVTCE TGDCRQQEFR DRSGNCVPCN
  hApo420pep        MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN
   Consensus        MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN

                   51                                                 100
hTRADEalpha_        QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR
    hTRAIN_1        QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR
hTRADEbeta_1        QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR
  hApo420pep        QCGPGMELSK ECGFGYGEDA QCVACRLHRF KEDWGFQKCK PCLDCAVVNR
   Consensus        QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR

                   101                                                150
hTRADEalpha_        FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
    hTRAIN_1        FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
hTRADEbeta_1        FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
  hApo420pep        FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
   Consensus        FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
```

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FIG. 1B

```
                151                                                 200
hTRADEalpha_    SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
   hTRAIN_1     SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
hTRADEbeta_1    SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
  hApo420pep    SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
   Consensus    SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK

                201                                                 250
hTRADEalpha_    KPSWSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL
   hTRAIN_1     KPSWSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL
hTRADEbeta_1    KPSWSLRSQD IQYNGSELSC LDRPQLHEYA HRACCQCRRD SVQTCGPVRL
  hApo420pep    KPSWSLRSQD IQYNETELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL
   Consensus    KPSWSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL

                251                                                 300
hTRADEalpha_    LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
   hTRAIN_1     LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
hTRADEbeta_1    LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
  hApo420pep    LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
   Consensus    LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
```

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FIG. 1C

```
                301                                                 350
hTRADEalpha_    CGEFSDAWPL MQNPMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLDSN
    hTRAIN_1    CGEFSDAWPL MQNPMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLDSN
hTRADEbeta_1    CGEFSDAWPL MQNPMGGDNI SFCDSYPELA GEDIHSLNPE LESSTSLDSN
  hApo420pep    CGEFSDAWPL MQNPMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLDSN
   Consensus    CGEFSDAWPL MQNPMGGDNI SPCDSYPELT GEDIHSLNPE LESSTSLDSN

                351                                                 400
hTRADEalpha_    SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
    hTRAIN_1    SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
hTRADEbeta_1    SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
  hApo420pep    SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
   Consensus    SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ

                401                     423
hTRADEalpha_    ESGAIIHPAT QTSLQEA~~~ ~~~
    hTRAIN_1    ESGAVIHPAT QTSLQEA~~~ ~~~
hTRADEbeta_1    ESGAIIHPAT QTSLQVRQRL GSL
  hApo420pep    ESGAVIHPAT QTSLQVRQRL GSL
   Consensus    ESGA-IHPAT QTSLQ--QRL GSL
```

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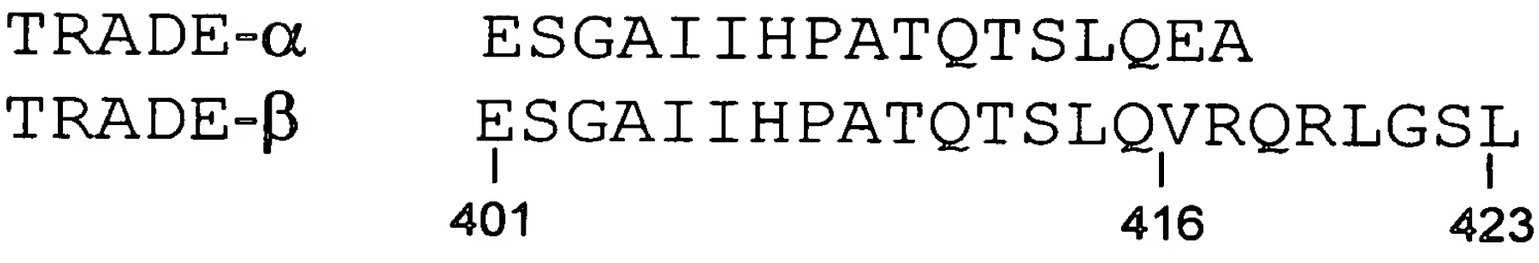
Replacement Sheet

FIG. 2



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Replacement Sheet

FIG. 3

CRD1

```
NGFRp75    CPTGLYT.H SGEC..CKAC NLGEGVAQPC ..G.ANQTVCE
OX40       CGDTYP..S NDRC..CHEC RPGNGMVSRC ..SRSQNTVCR
CD40       CREKQYL.L NSQC..CSLC QPGQKLVSDC ..TEFTETECL
TRADE      CRQQEFRDR SGNCVPCNQC GPGMELSKEC GFGYGEDAQCV
```

CRD2

```
NGFRp75    PCLDSVTFS DVVSATEPCK PCTECVGLQS MSAP...CVE ADDAVC
OX40       PC..GPGFY NDVVSSKPCK PCTWC.NLRS GSERKQLCTA TQDTVC
CD40       PCGES.EFL DTWNRETHCH QHKYCDPNLG LRVQQKGTSE T.DTIC
TRADE      TCRLHR.FK EDWGFQK.CK PCLDCAVVN. .RFQKANCSA TSDAIC
```

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T0S070'3650846D

FIG. 4

```
                                                                  CDR1
SEQ ID NO:2HUMAN TRADEα  MALKVLLEQEKTFFTLLVLLGYLSCKVTCESGDCRQQEFRDRSGNCVPCN  50
SEQ ID NO:6MOUSE TRADE   MALKVLPLHRTVLFAAILFLLHLACKVSCEIGDCRQQEFKDRSGNCVLCK  50

                                                  CDR2
SEQ ID NO:2HUMAN TRADEα  QCGPGMELSKECGFGYGEDAQCVTCRLHRFKEDWGFQKCKPCLDCAVVNR  100
SEQ ID NO:6MOUSE TRADE   QCGPGMELSKECGFGYGEDAQCVPCRPHRFKEDWGFQKCKPCADCALVNR  100
                         ★
SEQ ID NO:2HUMAN TRADEα  FQKANCSATSDAICGDCLPGFYRKTKLVGFQDMECVPCGDPPPPYEPHCA  150
SEQ ID NO:6MOUSE TRADE   FQKANCSATSDAVCGDCLPGFYRKTKLVGFQDMECVPCGDPPPPYEPHCT  150
                                                  TM
SEQ ID NO:2HUMAN TRADEα  SKVNLVKIASTASSPRDTALAAVICSALATVLLALLILCVIYCKRQFMEK  200
SEQ ID NO:6MOUSE TRADE   SKVNLVKISSTASSPRDTALAAVICSALATVLLALLILCVIYCKRQFMEK  200

SEQ ID NO:2HUMAN TRADEα  KPSWSLRSQDIQYNGSELSCFDRPQLHEYAHRACCQCRRDSVQTCGPVRL  250
SEQ ID NO:6MOUSE TRADE   KPSWSLRSQDIQYNGSELSCFDQPRLRHCAHRACCQYHRDSAPMYGPVHL  250

SEQ ID NO:2HUMAN TRADEα  LPSMCCEEACSPNPATLGCCVHSAASLQARNAGPAGEMVPTFFGSLTQSI  300
SEQ ID NO:6MOUSE TRADE   IPSLCCEEARSSARAVLGCGLRSPTTLQERNPASVGDTMPAFFGSVSRSI  300

SEQ ID NO:2HUMAN TRADEα  CGEFSDAWPLMQNPMGGDNISFCDSYPELTGEDIHSLNPELESSTSLDSN  350
SEQ ID NO:6MOUSE TRADE   CAEFSDAWPLMQNPLGGDS-SLCDSYPELTGEDTNSLNPENESAASLDSS  349

SEQ ID NO:2HUMAN TRADEα  SSQDLVGGAVPVQSHSENFTAATDLSRYNNTLVESASTQDALTMRSQLDQ  400
SEQ ID NO:6MOUSE TRADE   GGQDLAGTAAALESSGNVSESTDSPRHGDTGTVWEQTLAQDAQRTPSQGGW  399

SEQ ID NO:2HUMAN TRADEα  ESGAVIHPATQTSLQEA  417
SEQ ID NO:6MOUSE TRADE   EDRENLNLAMPTAFQDA  416
```

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FIG. 5A

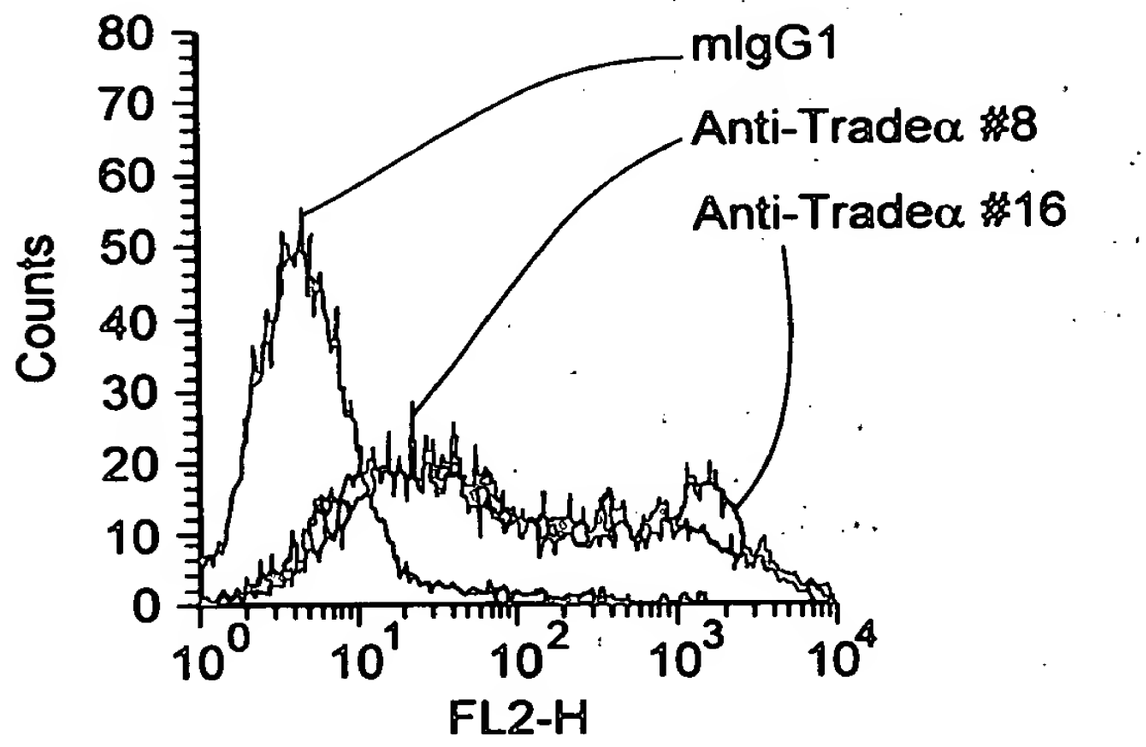

FIG. 5B

mAb # 8

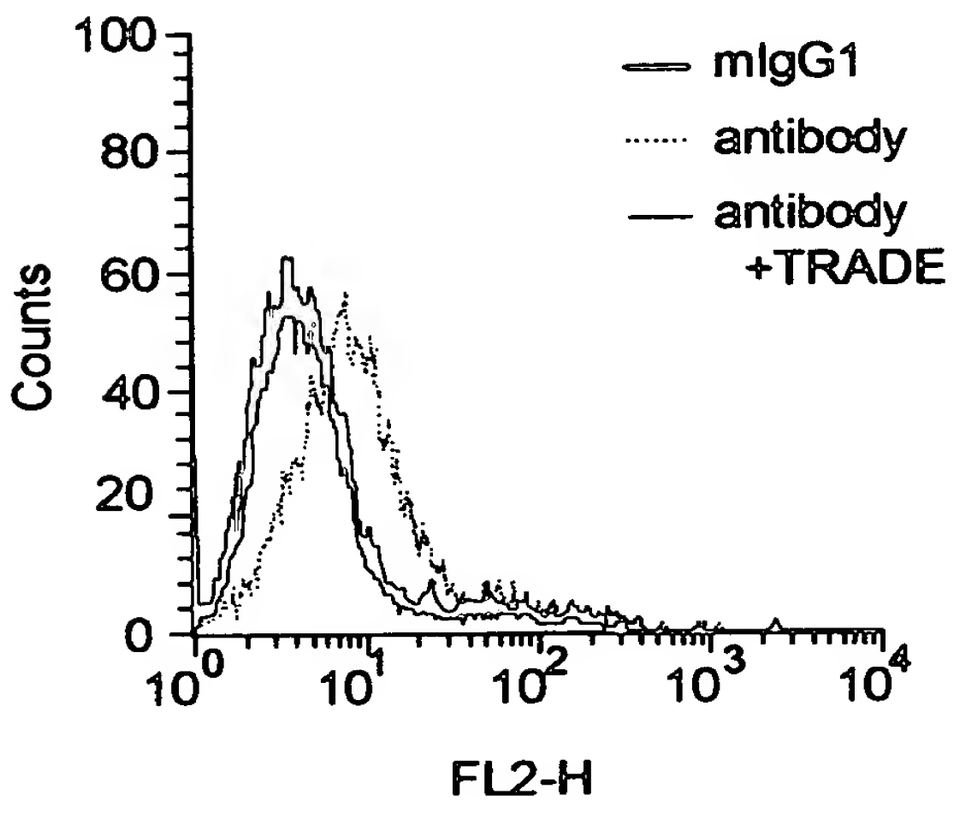

FIG. 5C

mAb#16

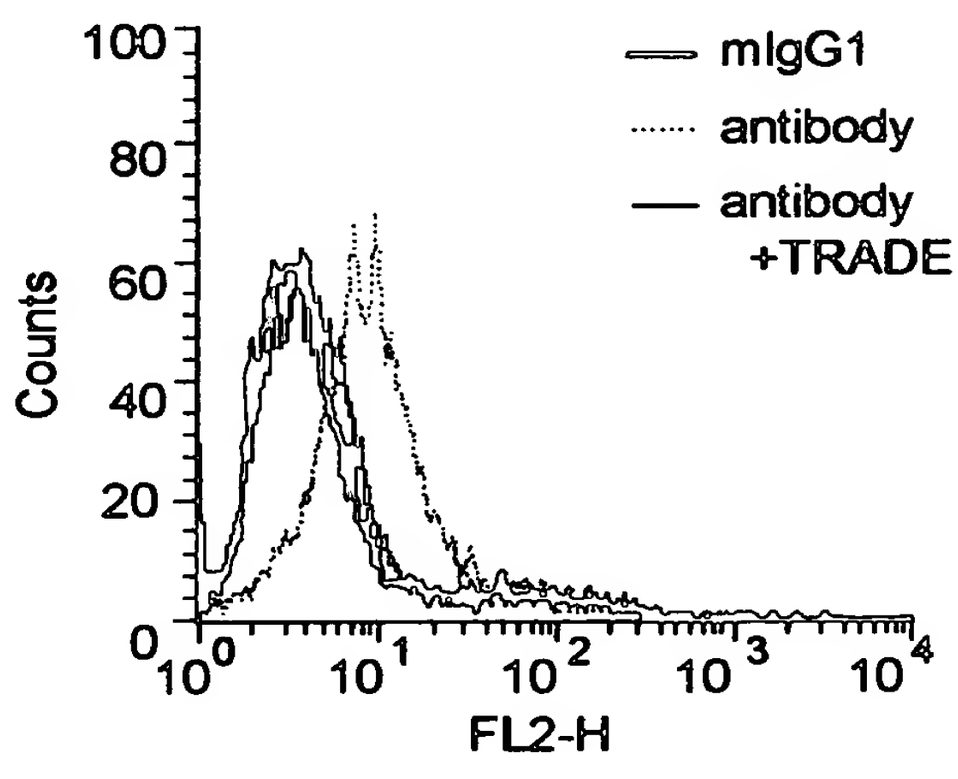

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FIG. 6A

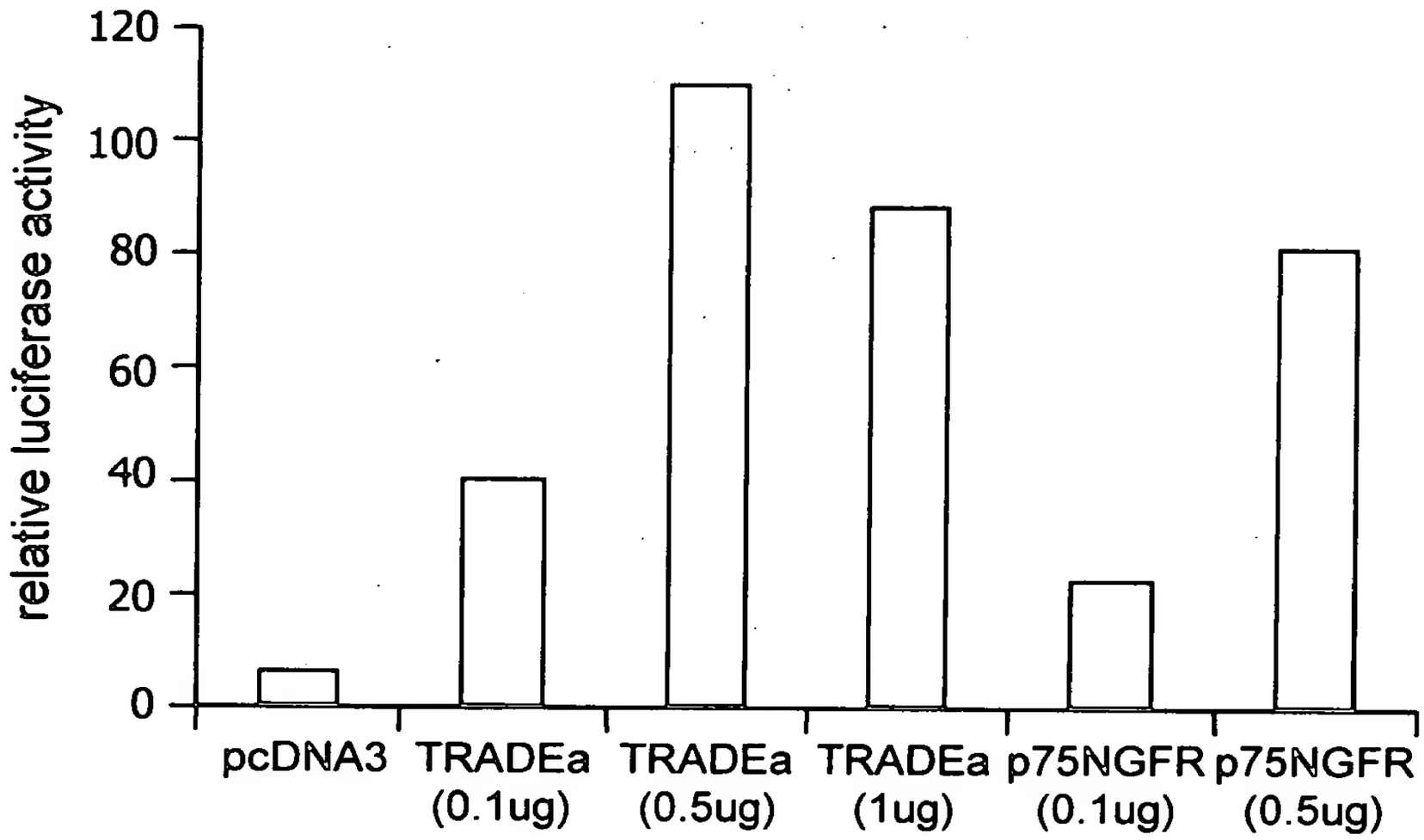

FIG. 6B

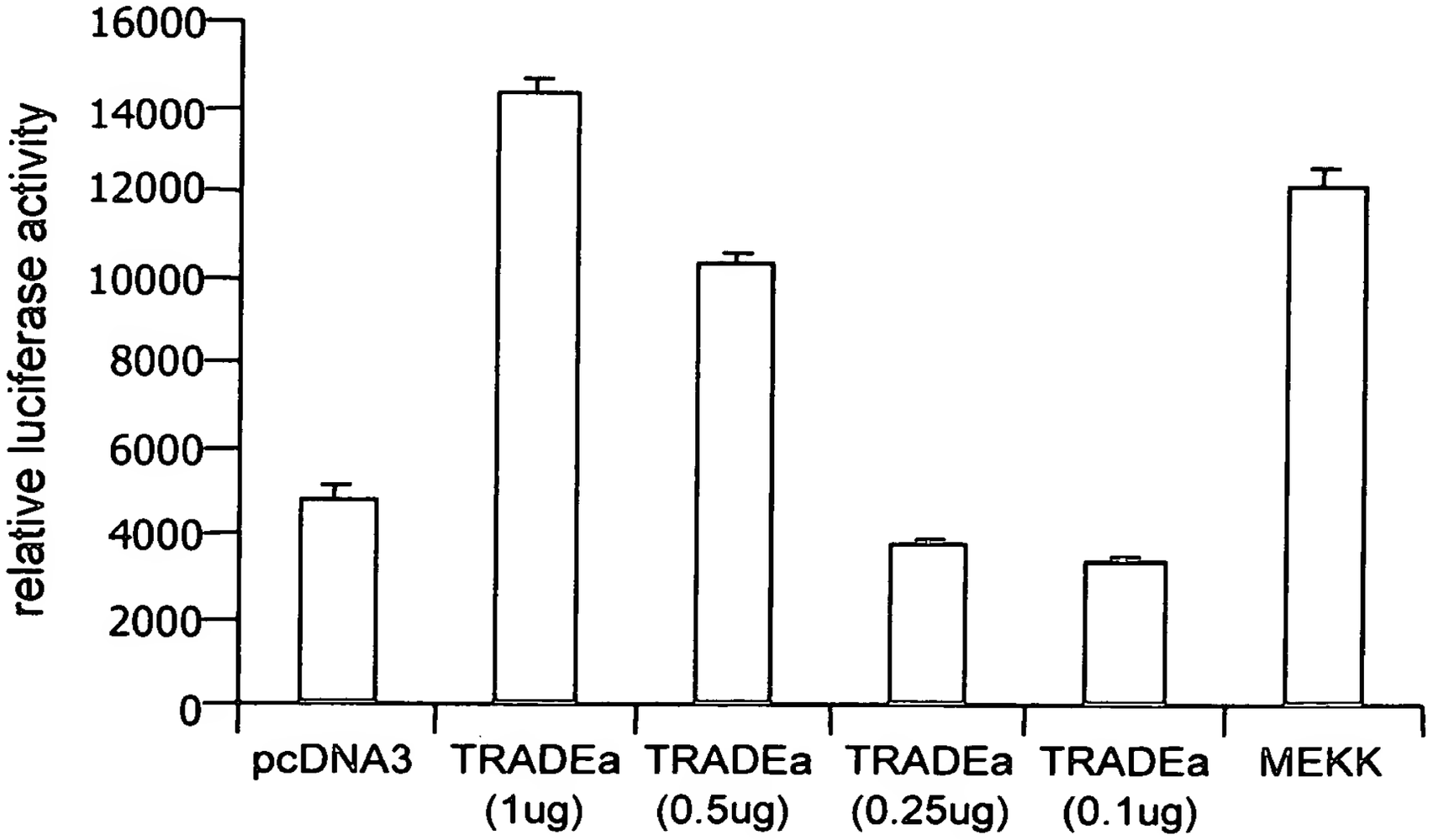

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FIG. 7A

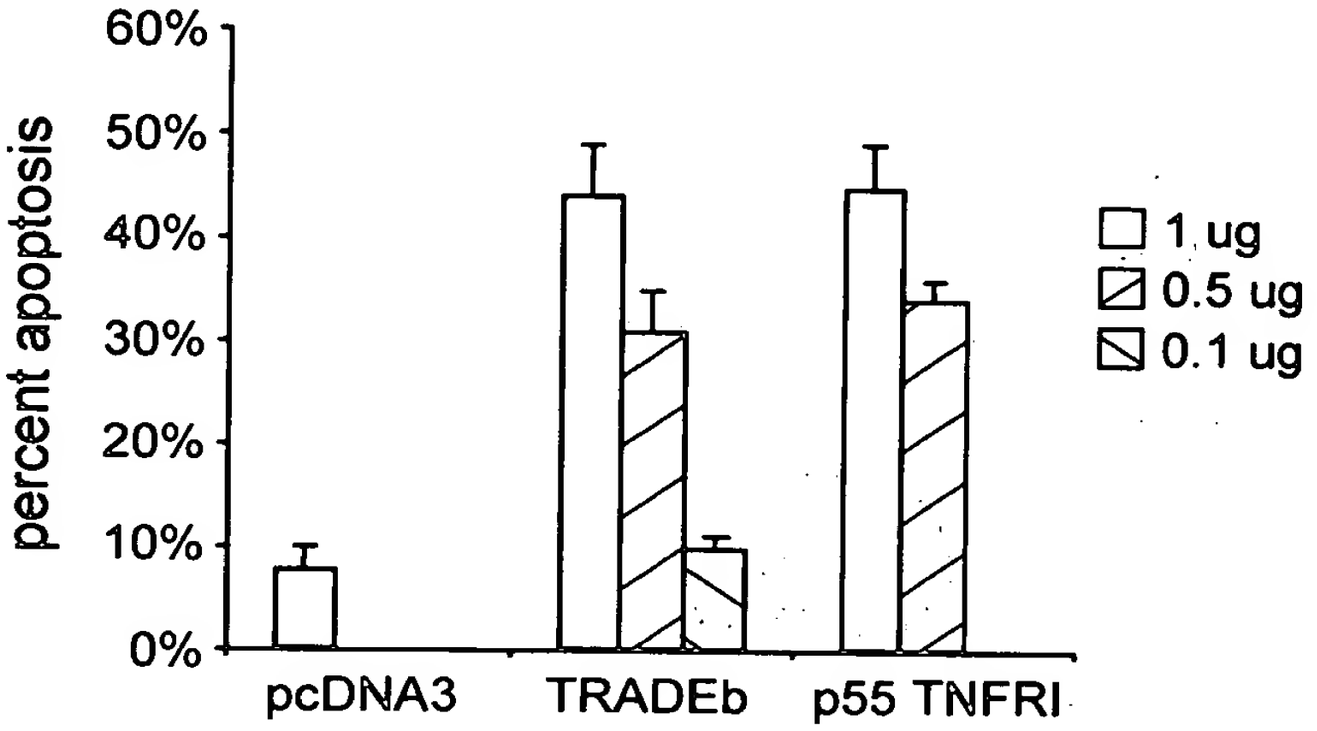

FIG. 7B

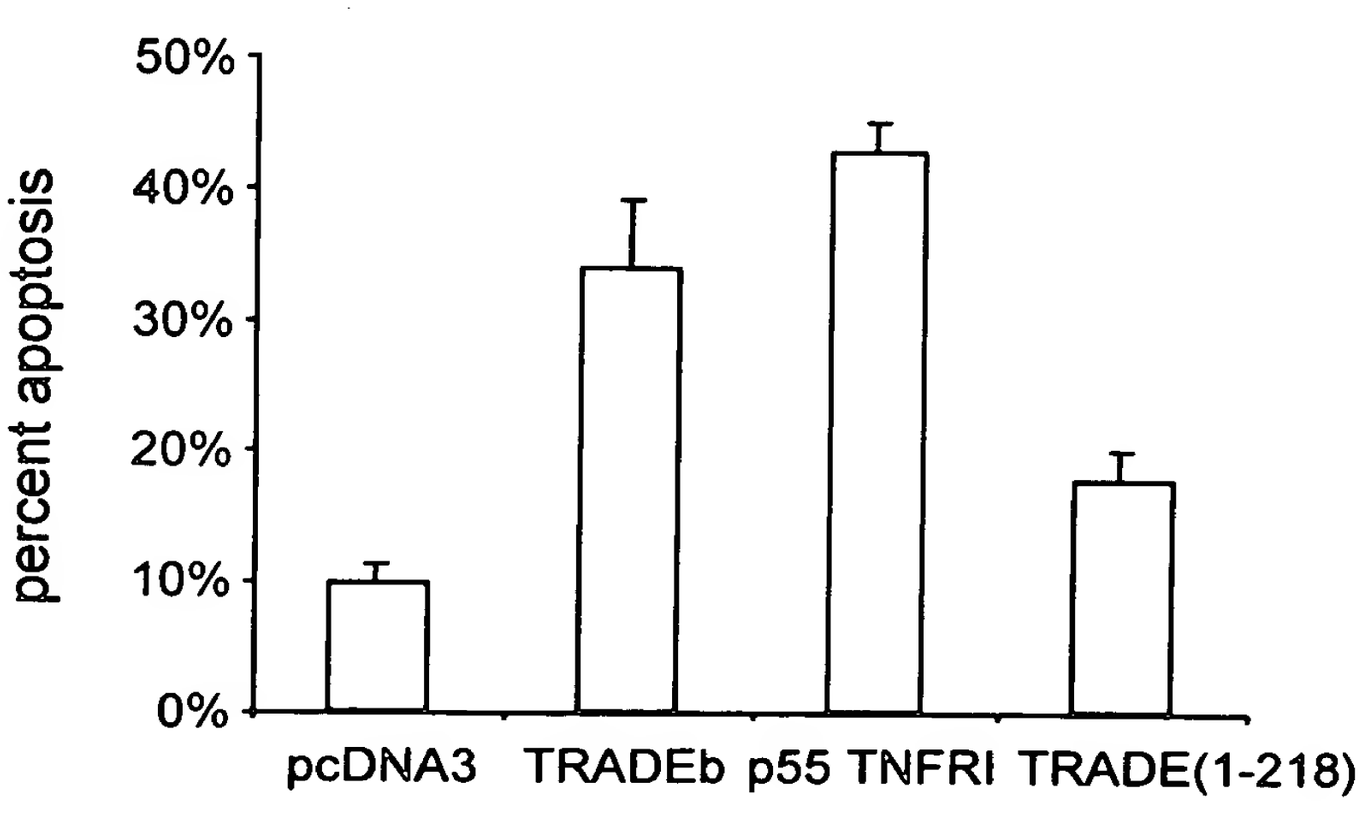

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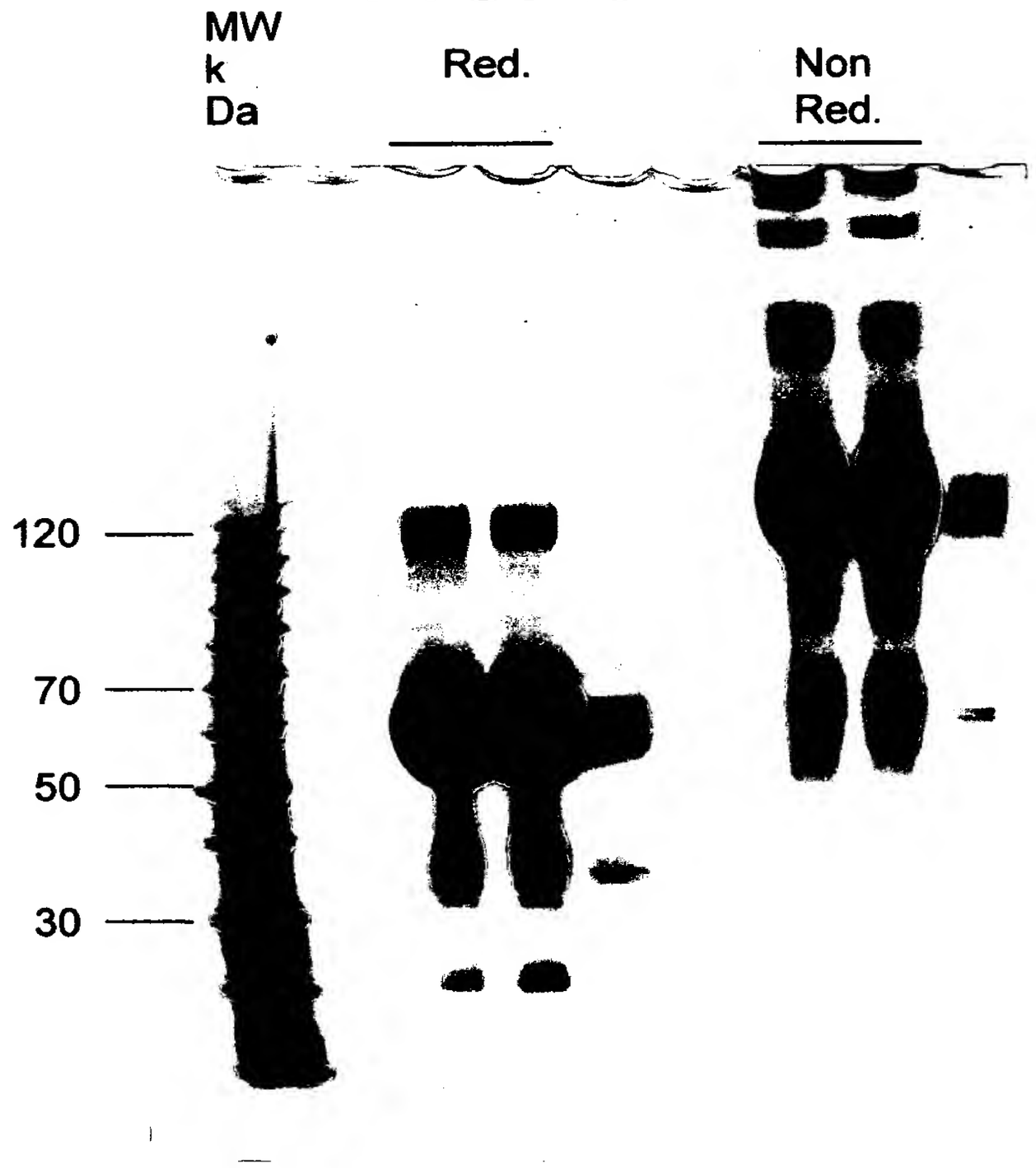
FIG. 8



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O.G. FIG.
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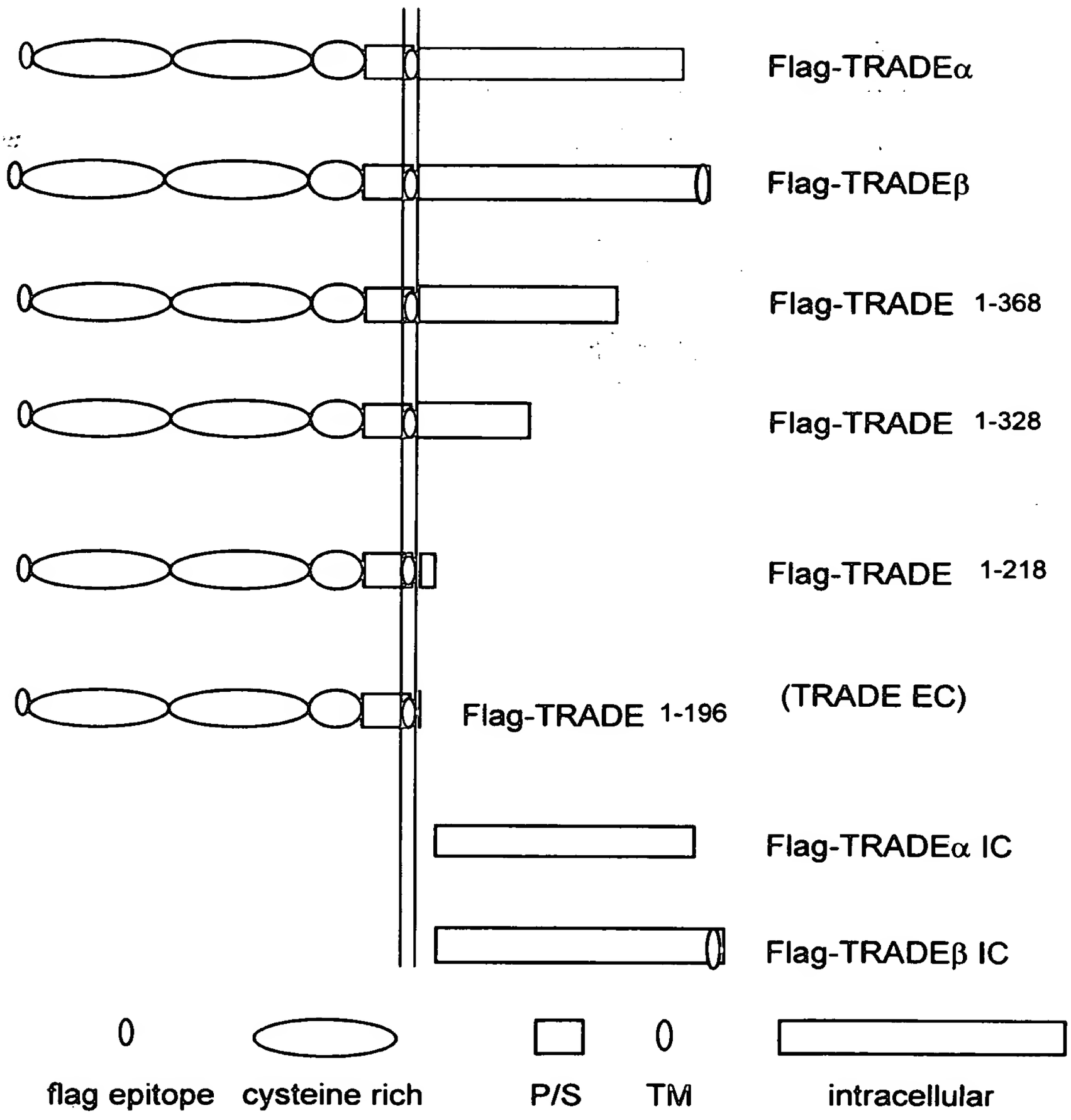
FIG. 9



Deletion analysis

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FIG. 10

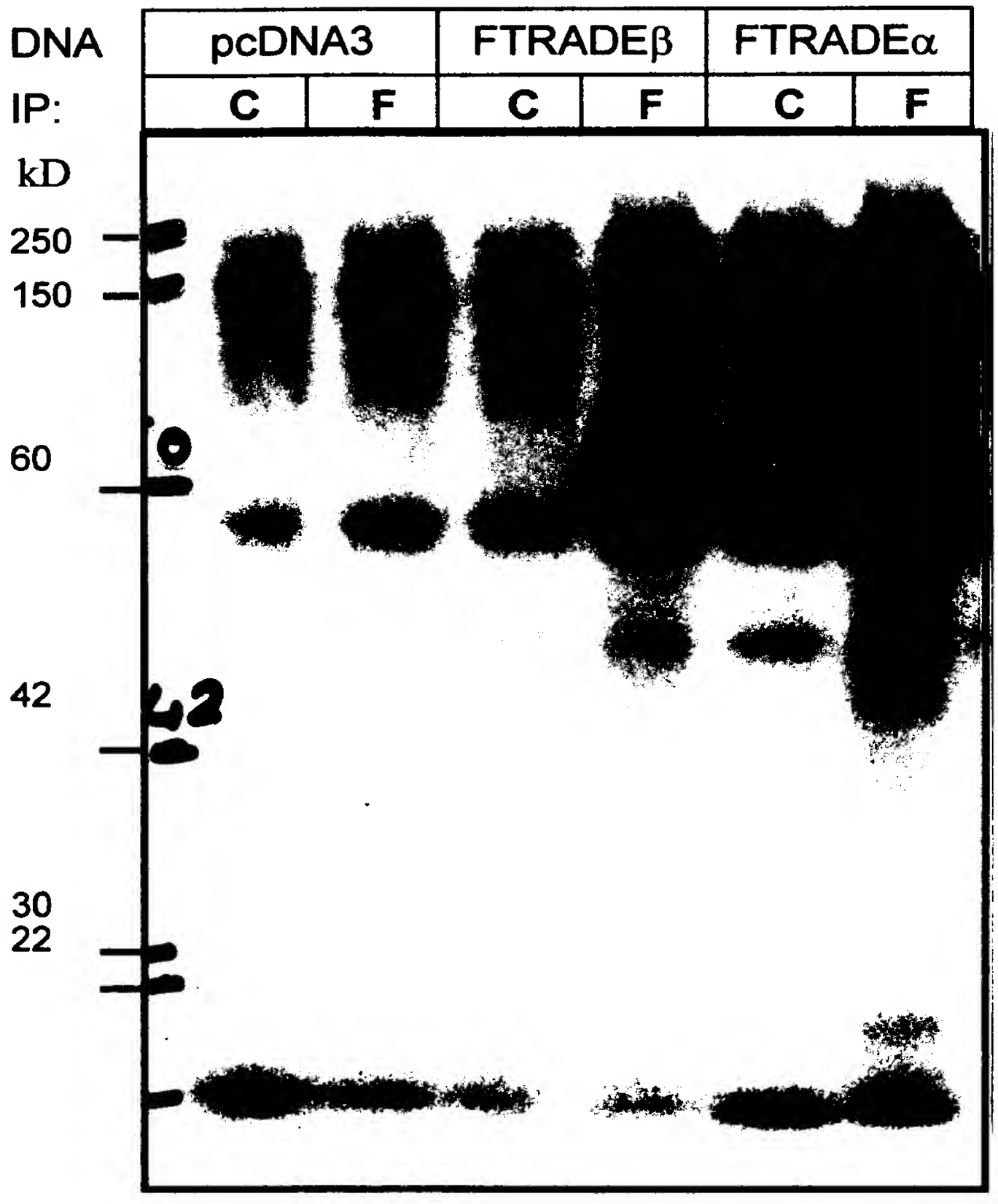

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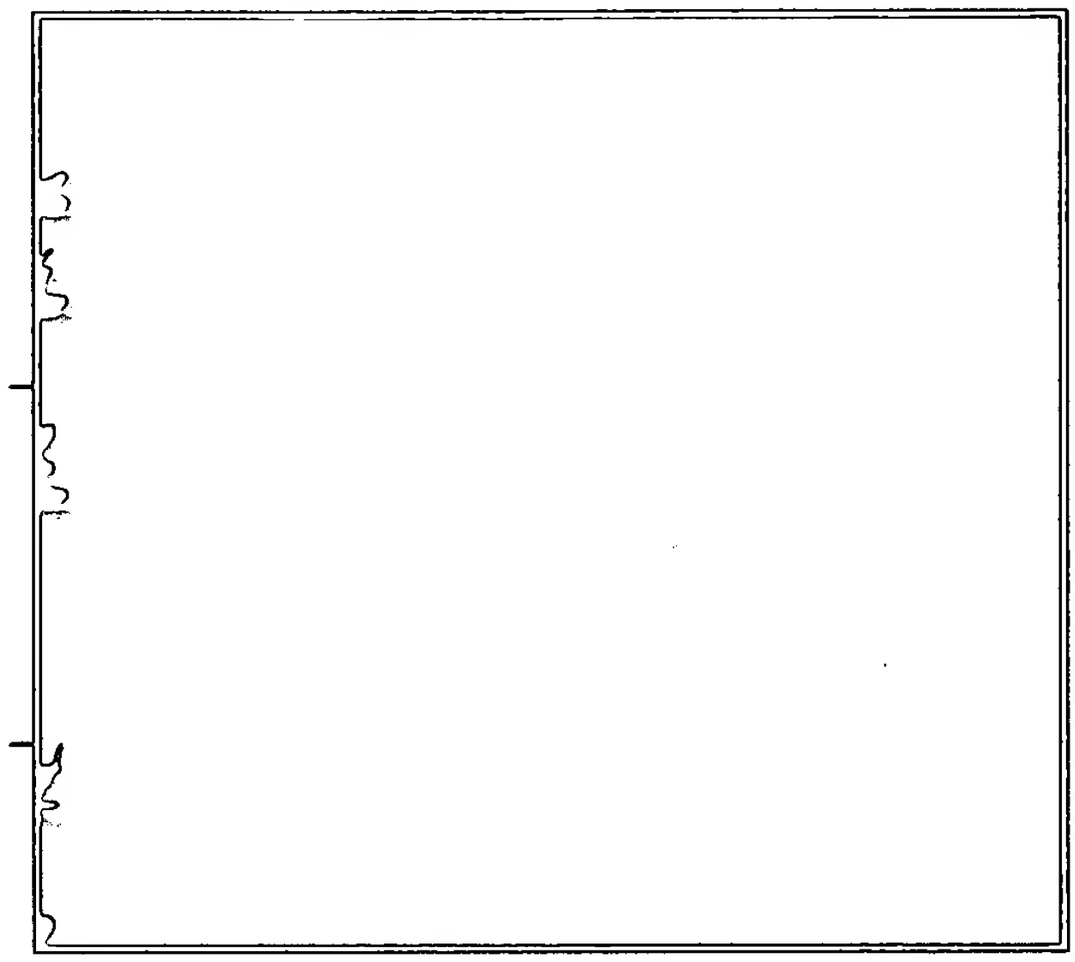
FIG. 11A

	F-TRADEβ		F-TRADE$^{1-328}$		F-TRADE$^{1-368}$	
IP:	C	F	C	F	C	F



Kinase assay

FIG. 11B

	F-TRADEβ		F-TRADE$^{1-328}$		F-TRADE$^{1-368}$	
IP:	C	F	C	F	C	F

anti-Flag blot

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O.G. FIG.
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EXPRESS MAIL NO. EB 067 760 US

FIG. 12A

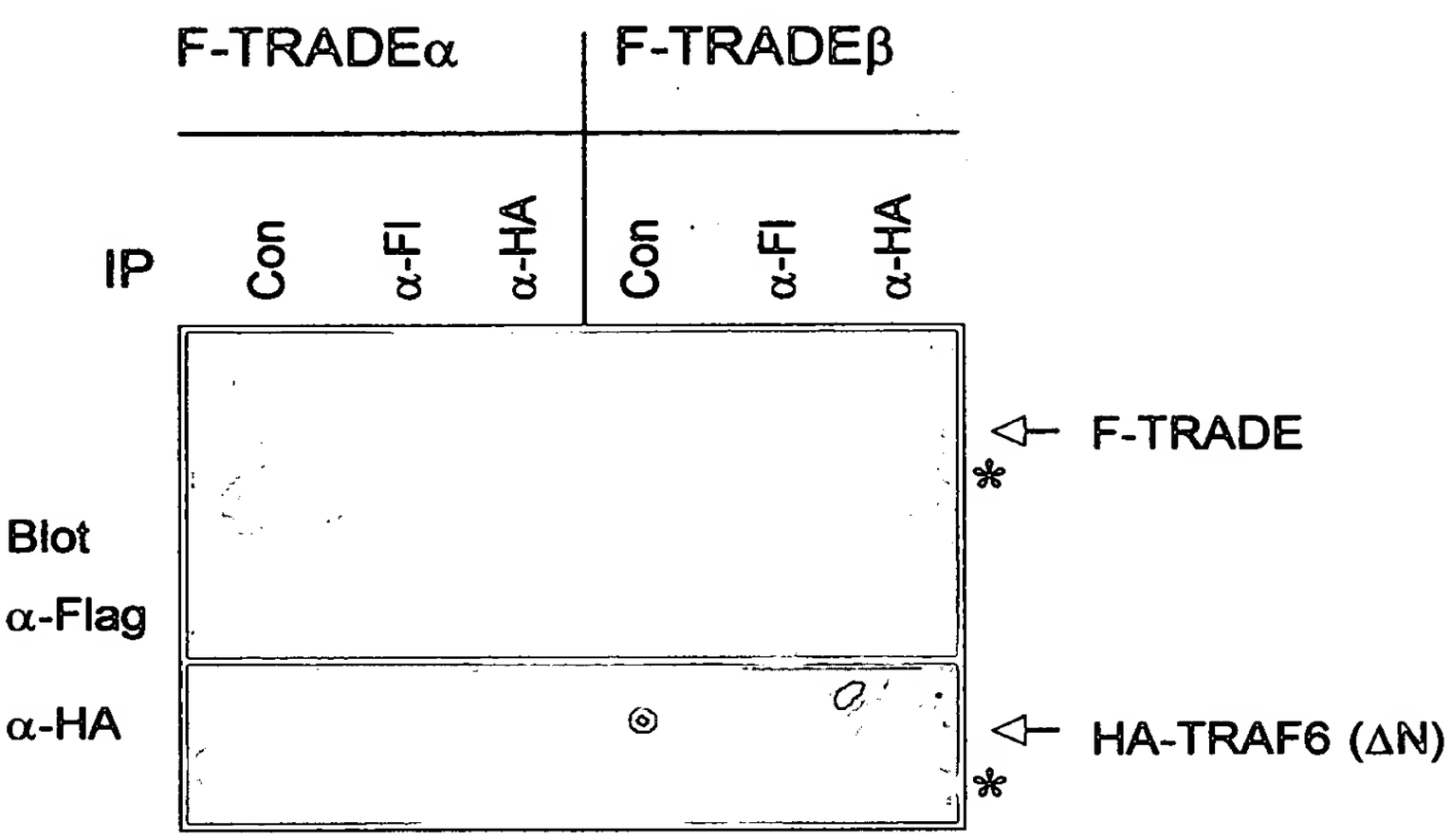

FIG. 12B

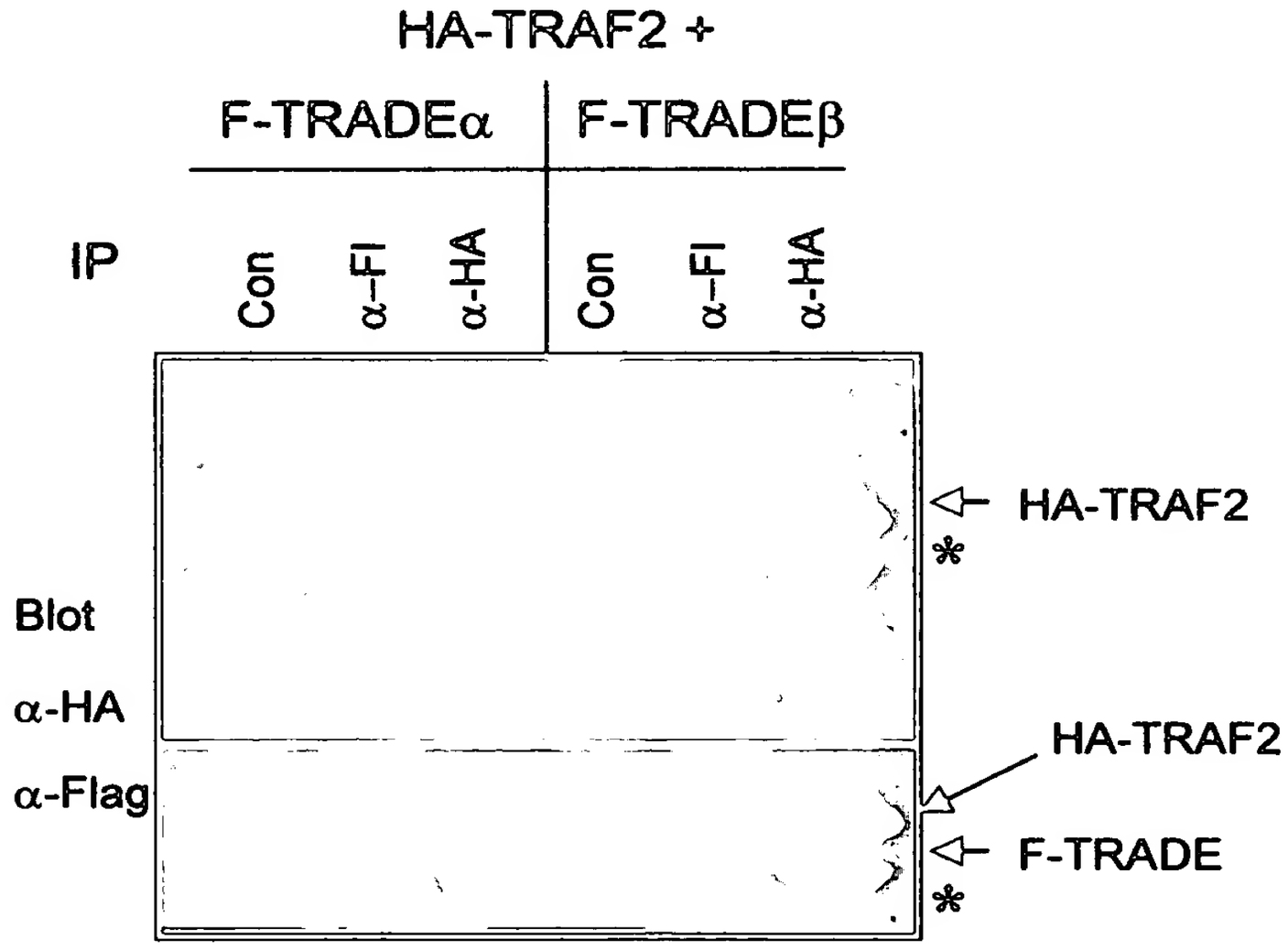

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FIG. 13

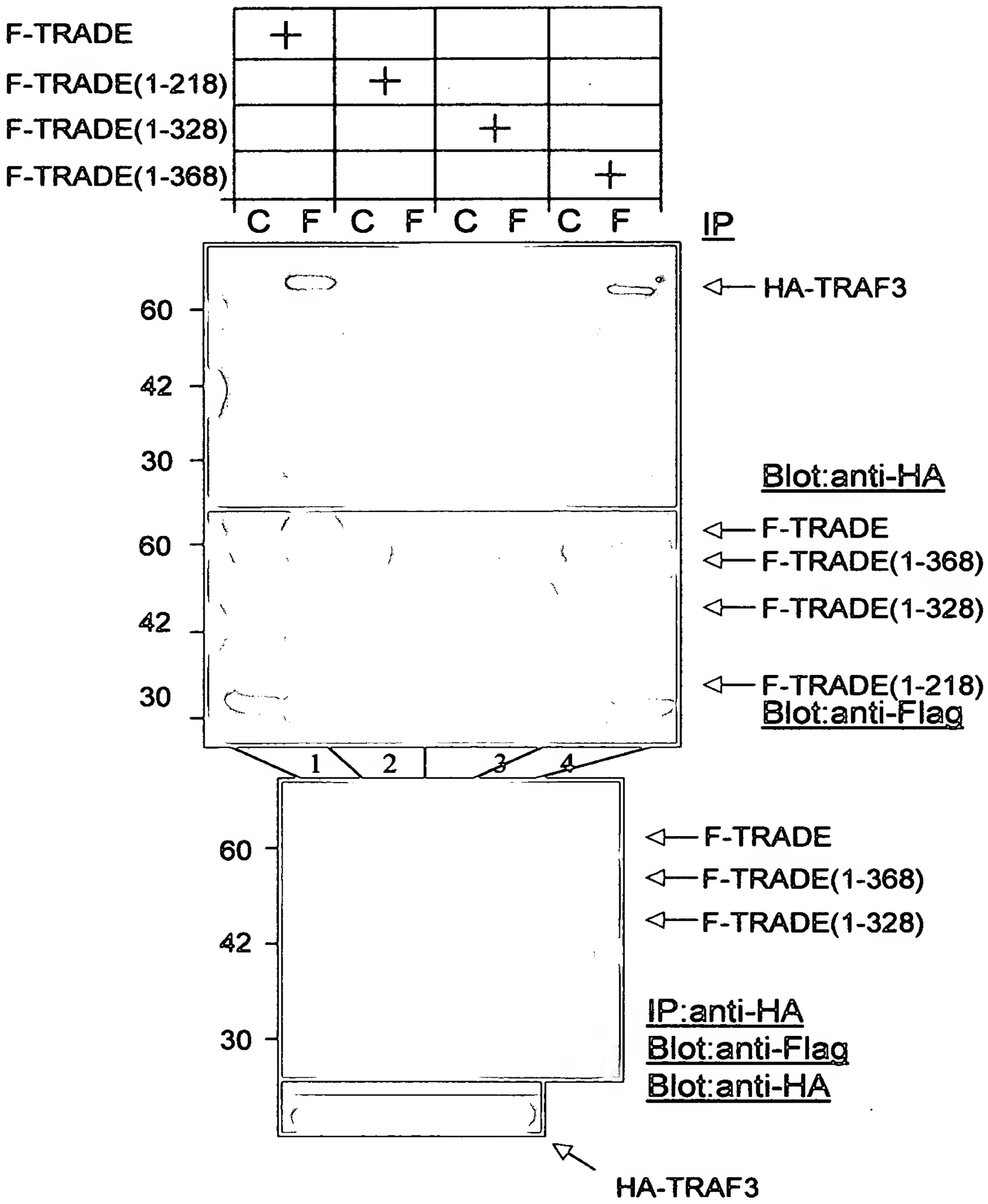

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FIG. 14A

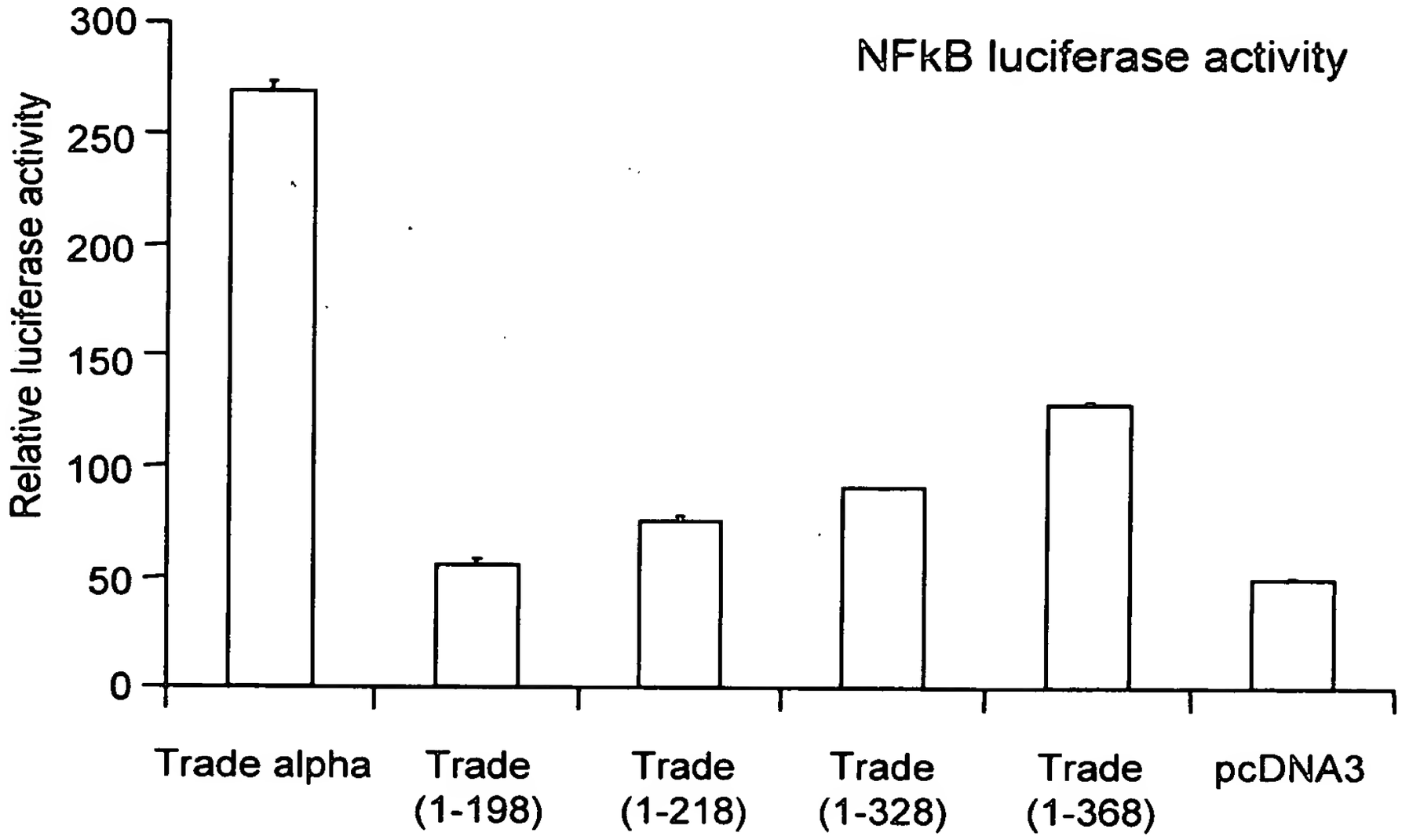
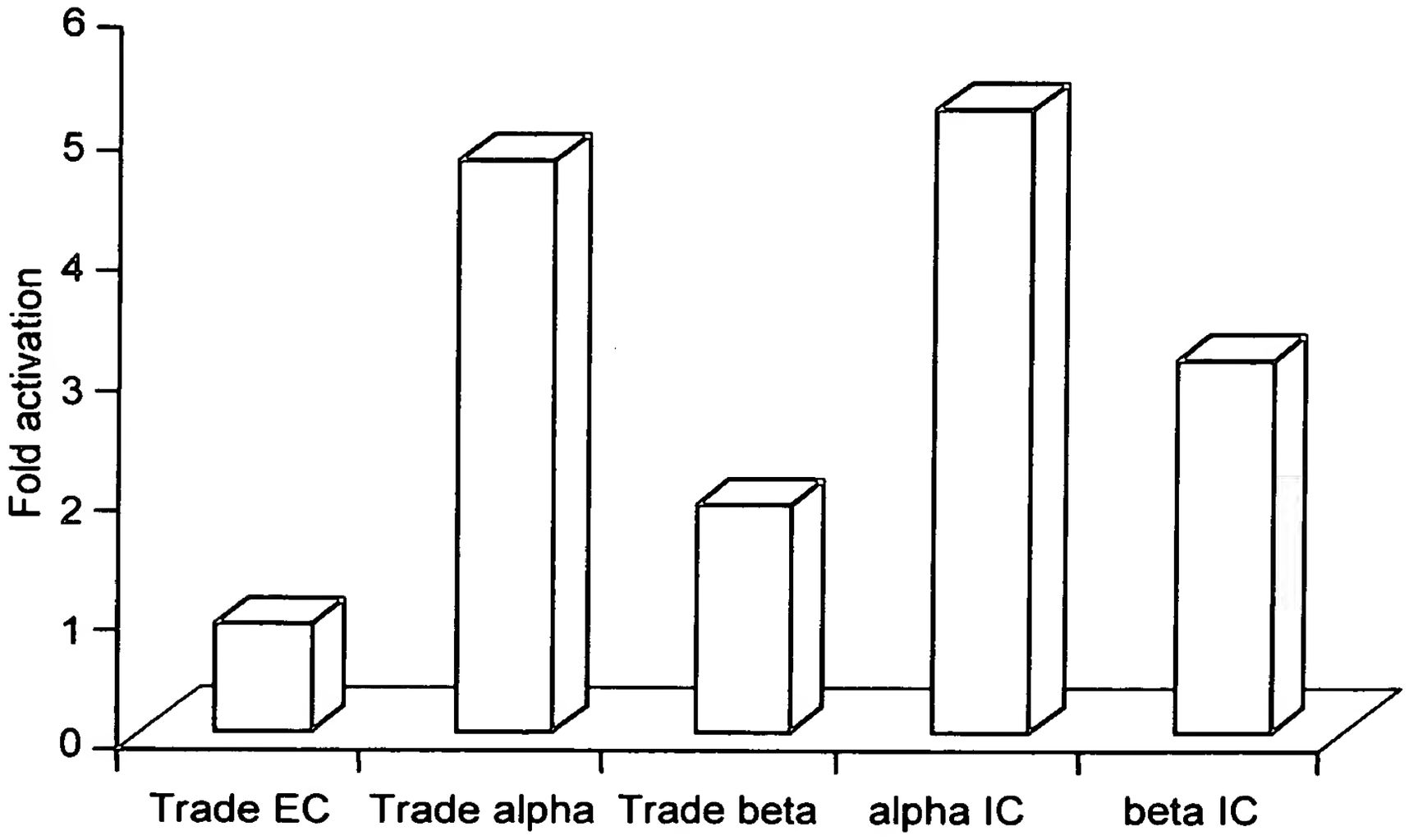
FIG. 14B